



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

All UNC Shops

Sanding Painted Surfaces



Title	Work Task	Hazards	Controls
Pre-Operation and Preparing for the Job	<ol style="list-style-type: none">1. Pre-plan the work and assess the work area.2. Contact EHS to determine the presence of lead in the painted surfaces, or other hazardous materials. If hazardous materials are present EHS must perform employee exposure monitoring.3. Assess the equipment for damaged parts or wires4. Assess the HEPA vacuum including installing a new vacuum bag and HEPA filter, depending upon previous usage.5. Select the appropriate safety glasses, ear protection, respiratory protection, and gloves needed to perform the job task.	<ul style="list-style-type: none">• Chemical (toxic): General dust, lead, crystalline silica, or other hazardous material present in the work area• Electrical	<ul style="list-style-type: none">• Administrative<ul style="list-style-type: none">○ Refer to the hazardous materials inspection report prepared by EHS prior to performing any sanding○ If equipment is damaged or broken, replace or have equipment repaired
Site Preparation	<ol style="list-style-type: none">6. Assess for any electrical hazards or overhead issues.7. Review the EHS inspection report and SDS if available8. Ensure proper lighting for work activities.	<ul style="list-style-type: none">• Electrical• Slip, Trip, Fall• Visibility	<ul style="list-style-type: none">• Administrative<ul style="list-style-type: none">○ Perform lockout/tagout where needed• Engineering<ul style="list-style-type: none">○ Prepare to install temporary lighting if low light

Title	Work Task	Hazards	Controls
Performing the Sanding	9. Sanding the paint	<ul style="list-style-type: none"> • Chemical (toxic): Lead, crystalline silica, or other hazardous material exposure • Slip, Trip, Fall • Noise • Mechanical/Vibration 	<ul style="list-style-type: none"> • Administrative <ul style="list-style-type: none"> ○ Take breaks and work in rotations to minimize exposure to vibrations ○ Operate electric tools within their designed limitations. ○ Use a circular motion when performing the sanding operation. ○ Replace the sandpaper as needed ○ Do not lift objects over your head • Engineering <ul style="list-style-type: none"> ○ Ensure to never operate the vacuum without the HEPA filter in place and a collection bag. ○ Ensure to never operate the sander without dust collection. • PPE <ul style="list-style-type: none"> ○ Safety glasses, ear protection, respiratory protection, and gloves.
Clean up	10. Upon completion, remove and replace the waste bag. 11. Track the number of hours associated with the HEPA filter. 12. Collect any lead dust and dispose of as hazardous waste	<ul style="list-style-type: none"> • Chemical (toxic): Lead, crystalline silica, or other hazardous material exposure 	<ul style="list-style-type: none"> • Administrative <ul style="list-style-type: none"> ○ Track hours used for HEPA filter to ensure proper longevity of equipment ○ Properly label all hazardous waste • PPE <ul style="list-style-type: none"> ○ Safety glasses, ear protection, respiratory protection, and gloves.
Training	Employees must receive training on this JSA, PPE, and ladder safety EHS website at https://ehs.unc.edu/training/self-study/	Supervisor is responsible for ensuring the employee reviews the JSA and the EHS guidelines.	
Created	Janet Phillips, Industrial Hygienist		
Revised	Taylor Moore, December 5, 2019		
Referenced Material	EHS Website; Hand and Power tools https://www.osha.gov/Publications/osh3080.pdf		

Contact Info

For more information about this JSA and other JSAs, contact:
Department of Environment, Health and Safety
UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650
(919) 962-5507 <https://ehs.unc.edu/>



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